

**A. Authors, Institutions, Overview**

- O | 1. **Title** - Enter a title, beginning with a descriptive reference to the specimen material or other characteristics specific to this data record, e.g. "Polyvinyl Acetate Degradation During XPS Measurements." Please refrain from using titles beginning with the name of the spectroscopy, e.g. avoid titles like "AES Study of . . ."

CuF<sub>2</sub> by XPS

- .O | 2. **Authors, Institutions, and Locations** (city, state, province, or country) - list authors and affiliations, in order of appearance in SSS.

<u>Richard P. Vasquez</u>	<u>Jet Propulsion Laboratory</u>	<u>Pasadena, CA</u>	<u>91109-8099</u>
Author	Institution	Location	

- ① | 3. **Abstract** - Summarize and include key information about the specimens and spectra, such as specimen material, measurement procedures, and significance of the research. The abstract will be reprinted verbatim.

X-ray photoemission measurements of CuF<sub>2</sub> are presented. XPS studies of Cu compounds in this laboratory are motivated by the need to identify species on chemically-etched high temperature superconductor surfaces (e.g. see Ref. 1).

- ① | 9. Key Words - List selected phrases and words to help readers search for information in the database, e.g. Auger electron spectroscopy, oxidation, corrosion, surface segregation. Be selective, but thorough.

X-ray photoemission, copper (II) fluoride, copper compounds

- ① | 10. Spectra Category - Check the suggested category of the data record: Technical, Comparison, or Reference (see the overview of instructions for definitions.). The editors may suggest an alternate category, based on the recommendations of referees.

Technical       Comparison       Reference

- ③ | 11. References - List citations to articles related to /he dots record using the style of J. Vac. Sci. Technol.

1. R. P. Vasquez, M. C. Foote, and B. D. Hunt, J. Appl. Phys. 66, 4866 (1989).

2. R. W. G. Wyckoff, Crystal Structures, 2<sup>nd</sup> ed. (Wiley, New York, 1963), Vol. 1, p. 264.

- ⑤ | 12. Acknowledgements

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Tuesday 11/30/1993

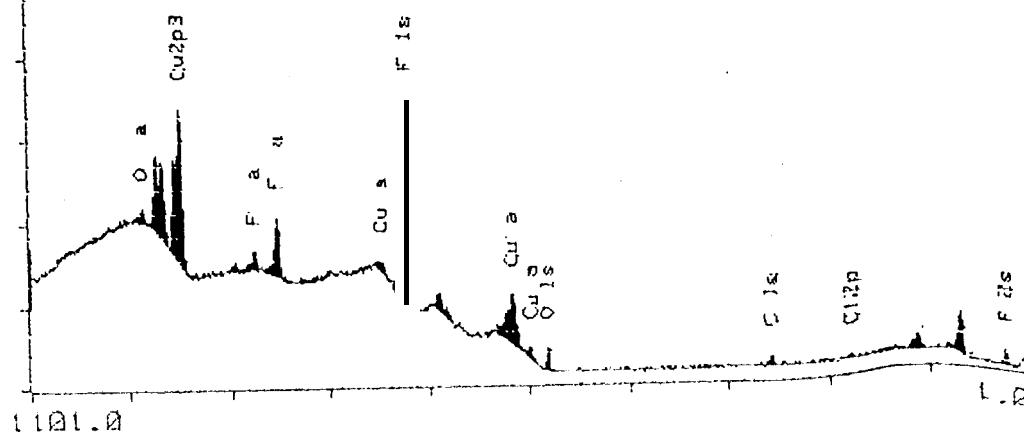
13:49:11

CuF2 pressed into In

Oper: RPV Groups: B Res: 4 Spot: 1000 u  
20000

(1) CuF2\_1

# of Scans	1
Flood Gun	0.8
eV	1099.93
Counts	5518



Survey

**SURFACE COMPOSITION TABLE**  
**CuF2\_1**  
**CuF2 pressed into In**

Elem	Corr'd	Flood	Delta	Sens	# of	eV/	Area	Relative	Atom
	BE	Gun	BE	Factor	Scans	group			
Cu2p3	936.48	0.0	-5.48	9.748	1	137.5	54497	600581	29.60
F 1s	684.20	0.0	1.80	3.333	1	137.5	30818	996469	49.11
C12p	197.79	0.0	3.21	2.395	1	137.5	801	35925	1.77
C 1s	284.80	0.0	-.20	1.000	1	137.5	2129	228701	11.32
O 1s	-532.05	0.0	-.05	2.494	1	137.5	3884	167326	8.25